

DH-IPC-HFW2249M-AS-LED-B

2MP Full-color Fixed-focal Bullet Wizsense Network Camera



Wiz Sense

Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

Series Overview

With advanced deep learning algorithm, Dahua WizSense 2 Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. With starlight technology, this series camera provides a better image effect in the condition of low illuminance.

Functions

SMD Plus

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

Perimeter Protection

With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission. • 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.

- Outputs max. 2 MP (1920 × 1080)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light and the max. illumination distance is 50 m.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Intelligent monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Alarm: 2 in, 2 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card; built in Mic.
- 12 VDC/PoE power supply, 12 VDC power output, max. current 165 mA, easy for installation.
- IP67 protection.



Full-color

With high-performance sensor and large aperture lens, Dahua Full-color technology can display clear colorful image in the environment of ultralow illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.

Cyber Security

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

Protection (IP67, Wide Voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can work normally after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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Technical Specification

Camera				
Image Sensor	1/2.8" CMOS			
Max. Resolution	1920 (H) × 1080 (V)			
ROM	128 MB			
RAM	128 MB			
Scanning System	Progressive			
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination	0.0017 Lux@F1.0			
S/N Ratio	>56 dB			
Illumination Distance	Up to 50 m (164.04 ft) (Warm light)			
Illuminator On/Off Control	Auto; Manual			
Illuminator Number	4 (Warm light)			
Lens				
Lens Type	Fixed-focal			
Lens Mount	M12			
Focal Length	3.6 mm; 6 mm			
Max. Aperture	F1.0			
Field of View	3.6 mm: H: 85°; V: 45°; D: 100° 6 mm: H: 57°; V: 31°; D: 65°			
Iris Control	Fixed			
Close Focus Distance	3.6 mm: 1.7 m (5.58 ft) 6 mm: 3.4 m (11.15 ft)			
Lens	Detect	Observe	Recognize	Identify
DORI 3.6 mm Distance	53.8 m (176.51 ft)	21.5 m (70.54 ft)	10.8 m (35.43 ft)	5.4 m (17.72 ft)
6 mm	82.8 m (271.65 ft)	33.1 m (108.60 ft)	16.6 m (54.46 ft)	8.3 m (27.23 ft)
Intelligence				

IVS (Perimeter Protection) cl	trusion, tripwire (the two functions support the lassification and accurate detection of vehicle and uman).
Smart Search in	Vork together with Smart NVR to perform refine ntelligent search, event extraction and merging to event ideos
Video	
Video (ompression	.265; H.264; H.264H; H.264B; MJPEG (Only supported y the sub stream)
Smart Codec Sr	mart H.265+; Smart H.264+
Si Video Frame Rate fr * st	Main stream: 1920 × 1080@(1–25/30 fps) ub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 os) The values above are the max. frame rates of each tream; for multiple streams, the values will be subjected o the total encoding capacity.
Stream Capability 2	streams

Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Bit Rate Control	CBR/VBR	
Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps	
Day/Night	Color/B/W	
BLC	Yes	
HLC	Yes	
WDR	120 dB	
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Gain Control	Auto; Manual	
Noise Reduction	3D NR	
Motion Detection	OFF/ON (4 areas, rectangular)	
Region of Interest (RoI)	Yes (4 areas)	
Smart Illumination	Yes	
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)	
Mirror	Yes	
Privacy Masking	4 areas	
Audio		
Built-in MIC	Yes	
Audio Compression	G.711a; G.711Mu; G.726; PCM	
Alarm		
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; SMD; security exception	
Network		
Network Port	RJ-45 (10/100 Base-T)	
SDK and API	Yes	
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP ; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P	
Interoperability	ONVIF (Profile S; Profile G; Profile T); CGI	
User/Host	20 (Total bandwidth: 48 M)	
Storage	FTP; SFTP; Micro SD card (support max. 256 GB)	
Browser	IE; Chrome; Firefox	
Management Software	Smart PSS Lite;DSS;DMSS	
Mobile Client	iOS;Android	
Cyber Security	Configuration encryption;trusted execution;Digest;security logs;WSSE;account lockout;syslog;video encryption;802.1x;IP/MAC filtering;HTTPS;trusted upgrade;trusted boot;firmware encryption;generation and importing of X.509 certification	

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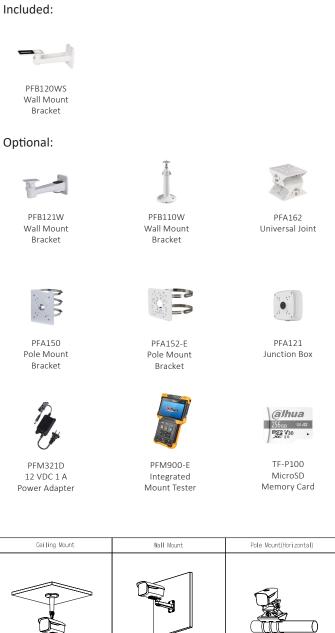
Certification

Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
Port	
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	2 channels in: wet contact, 5mA 3V–5V DC
Alarm Output	2 channels out: wet contact, 300mA 12V DC
Power	
Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 2 W (12 VDC); 2.7 W (PoE) Max. (H.265+ intelligence on + WDR + illuminator intensity): 7.9W (12 VDC); 9.7 W (PoE)
Environment	
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Humidity	≤95%
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Humidity	≤95%
Protection	IP67
Structure	
Casing Material	Metal + plastic
Product Dimensions	201.0 mm × 103.8 mm × 97.8 mm (7.91" × 4.09" × 3.85") (L × W × H)
Net Weight	0.71 kg (1.57 lb)
Gross Weight	1.27 kg (2.80 lb)

Ordering Information

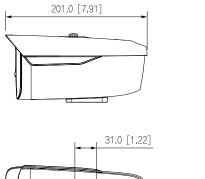
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Туре	Model	Description			
2MP Camera	DH-IPC-HFW2249M-AS- LED-B	2MP Full-color Fixed-focal Bullet Wizsense Network Camera			
P P Accessories P P P P P	PFB120WS	Wall Mount Bracket			
	PFB121W	Wall Mount Bracket			
	PFB110W	Ceiling Mount Bracket			
	PFA162	Universal Joint			
	PFA150	Pole Mount Bracket			
	PFA152-E	Pole Mount Bracket			
	PFA121	Junction Box			
	PFM321D	12 VDC 1A Power Adapter			
	PFM900-E	Integrated Mount Tester			
	TF-P100	MicroSD Memory Card			

Accessories

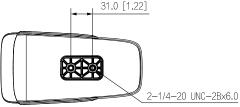


Pole Mount(Vertical)

Dimensions (mm[inch])







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